RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

DIVISION : NEW PRODUCT DEVELOPMENT

SUBJECT TITLE : TECHNOLOGY DEVELOPMENT

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WRITTEN BY : GAWAD-A (AHG) AND BRAEM-D (DAB)

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PROJECT NILE - NO 4024

Objective

General evaluation of total-blend-expansion technology.

Status

In order to evaluate the effect of having casings and ingredients on tobacco before expansion, 3 batches were processed at 220 C.

ZB 028 : one American blend including recon (but no stems) with ML022 treatment.

ZB 029 : the same blend as above, only treated with water as a reference.

ZB 030 : the same blend but no recon with ML022 treatment.

Cigarette prototypes in MLK construction were produced. Table 1 shows physical and smoke data.

In general, analytical results are similar to those observed with untreated expanded blends (Ref. 1,2). The main difference between treated and untreated blends is firmness which is, as expected, better in the second.

Plans

After taste evaluation (Ref. 3), panelists recommended carrying out a new trial with a new blend containing an intermediate amount of recon between ZB028 and ZB030.

A total-blend casing will also be experimented in order to keep only one heat treatment during the process (expansion at 220 C). In that way, Burley treatment will be omitted.

Furthermore, another trial will be made by mixing tobacco expanded at 220 C with unexpanded treated tobacco.

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Source: https://www.industrydocuments.ucsf.edu/docs/fpnm0000

References

[1] De Zuanni-M and Braem-D, Quarterly Report, July-September 1988, p. 76.
[2] De Zuanni-M, Quarterly Report, April-June 1988, p.66.
[3] Taste evaluation, Panel A, dated June 15, 1990.

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Source: https://www.industrydocuments.ucsf.edu/docs/fpnm0000

TABLE 1 - PROJECT NILE

Prototype		64 P	65P	66P
Blend		ZB028	ZB029	ZB030
Cig. length	[mm]	84	84	84
Filter length	[mm]	21	21	21
Total weight	[mg/cig]	803	795	801
Tobacco weight	[mg/cig]	582	580	582
Cig. RTD	[mm WG]	128	135	149
Dilution	[%]	14	16	17
Firmness as is		3.95	3.03	3.33
Tar	[mg/cig]	11.6	10.7	12.1
SN	[mg/cig]	0.83	0.81	0.95
CO	[mg/cig]	12.8	12.0	11.2
Puff count	[nb/cig]	7.0	7.1	8.0

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